



## Specification

Concerning Product:	
Article number	36965
Trade name / designation / denomination	Vitamin E DL-alpha-Tocopherol
CAS number	10191-41-0
Other names / synonyms	•(+)-a-Tocopherol; •(+)-alpha-Tocopherol; •(+/-)-alpha-Tocopherol; •2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-3,4-dihydro-2H-1-benzopyran-6-ol; •3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol; •?-Tocopherol; •D-?-TOCOPHEROL; •D-alpha-Tocopherol; •DL-α-Tocopherol; •DL-?-TOCOPHEROL;
EC number	233-466-0
Molecular weight [g / mol]	430.7061
Formula	C <sub>29</sub> H <sub>50</sub> O <sub>2</sub>
May cause long lasting harmful effects to aquatic life. Avoid release to the environment. Dispose of contents/container in accordance with local/regional/(inter)national regulations.	

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance	viscous, yellow to brown oil	
<b>Physical parameter</b>		
Refraction index	1,503 – 1,507	
Specific Optical Rotation	-0,01 – +0,01	°
<b>Identity</b>		
Assay	96,0 – 102,0	g/100g
Identification	complies	
Infrared absorbtion spectrometry	(< 292 nm in Ethanol) 72 – 76	
Infrared absorbtion spectrometry	(at max. 292 nm in Ethanol) 72 – 76	
<b>Impurities</b>		
Heavy Metals (as Pb)	≤ 10	ppm
Sulphated ash	≤ 0,1	%
Impurity	A: ≤ 0,5	%
Impurity	Any other: ≤ 0,25	%
Impurity	B: ≤ 1,5	%
Impurity	C + D: ≤ 1,0	%
Impurity	Total: ≤ 2,5	%
<b>Residual Solvents</b>		
Residual solvents	Heptane: ≤ 0,5	g/100g
Residual solvents	Methanol: ≤ 3000	mg/kg

<b>Elemental Impurities</b>		
Arsenic (As)	≤ 1	ppm
Cadmium (Cd)	≤ 1	ppm
Mercury (Hg)	≤ 0,1	ppm
Lead (Pb)	≤ 2	ppm
Zinc (Zn)	≤ 10	ppm
<b>Microbiological data</b>		
Aerobic microorganisms	≤ 1000	CFU/g
Escherichia Coli.	neg.	/1g
Salmonella	neg.	/25g
Yeast and Mould	≤ 200	CFU/g

**Regulatory information:**

**Allergens statement:** According to Annex II of Regulation (EU) No **1169/2011** of the European Parliament and of the Council of 25th October 2011 and its amendment (EU) No **78/2014** on substances or products the above mentioned product does NOT cause allergies or intolerances and does NOT contain any allergens which have to be labelled according to these regulations.

**BSE/TSE statement:** Risk of BSE/TSE contamination can be excluded.

**GMO statement: Genetic engineering:**

For the above mentioned product there is no obligation of g.m.o. labelling as defined by the Regulations (EC) No **1829/2003** and **1830/2003** of the European Parliament and the Council of 22<sup>nd</sup> September 2003.

**Supplemental information:**

**Shelf life:** 36 Mon.

**Derivation:** synthetic

**Note: Traceability**

According to Regulation (EC) No **178/2002** the traceability of the raw materials for the product is guaranteed one step backwards and of produced batches one step forward. All instructions, which are necessary to take these steps, are implemented in the Quality manual and management system according to IFS and BRC.

**Storage conditions:** Protect from light and store cool and dry in well-closed original packaging. The temperature should not exceed 25 °C.

**Usage:** The product is suitable for a vegetarian nutrition.

The product is suitable for a vegan nutrition.

The product is suitable for lactose intolerance diet.

The product is suitable for people with coeliac disease and sprue.

The product is in compliance with Jewish dietary laws.

The product is in compliance with Islamic dietary laws.

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 06. Dec. 2019

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